



US006385130B1

(12) **United States Patent**
Michel

(10) **Patent No.:** **US 6,385,130 B1**
(45) **Date of Patent:** **May 7, 2002**

(54) **DUAL CHANNEL SWITCH WITH
FREQUENCY BAND LIMITING**

(75) Inventor: **Claude D. Michel**, Fall River, MA
(US)

(73) Assignee: **The United States of America as
represented by the Secretary of the
Navy**, Washington, DC (US)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/659,676**

(22) Filed: **Sep. 11, 2000**

(51) Int. Cl.⁷ **G01S 3/80**

(52) U.S. Cl. **367/124; 367/118; 367/129**

(58) Field of Search 367/118, 124,
367/129, 135, 6

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,320,576	A *	5/1967	Dixon et al.	367/135
3,859,621	A *	1/1975	Foreman	367/127
4,198,705	A *	4/1980	Massa	367/126
4,581,727	A *	4/1986	Harper et al.	367/118
4,604,738	A *	8/1986	Aggarwal et al.	367/135
5,341,347	A *	8/1994	Ludwig	367/129

* cited by examiner

Primary Examiner—Ian J. Lobo

(74) *Attorney, Agent, or Firm*—Michael J. McGowan;
Prithvi C. Lall; Michael F. Oglo

(57) **ABSTRACT**

An acoustic switch, having a predetermined frequency response, is disclosed that allows for a single channel device to be interconnected to multiple transducers. The acoustic switch ensures that the signals from the transducer closest to transmitter, which has a highest possible input level, is supplied to the single channel device for processing.

9 Claims, 5 Drawing Sheets

